

**FRIEDMAN & BRUYA, INC.**  
**ENVIRONMENTAL CHEMISTS**James E. Bruya, Ph.D.  
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TEL: (206) 285-8282  
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DATE: 1-10-97

TO: Garry Thompson

COMPANY: Alaskan Copper PROJECT ID: \_\_\_\_\_

FAX #: 382-7335 PHONE #: \_\_\_\_\_

FROM: Kurt Johnson

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<u>4</u>	<u>Results</u>

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FRIEDMAN & BRUYA, INC./FORMS/TRANSMIT

Rev. 09/12/96

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**January 10, 1997**

**Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134**

**Dear Mr. Thompson:**

**Included are the results from the testing of material submitted on January 2, 1997  
from your Metro Self Monitor, PO #M55653 project.**

**We appreciate this opportunity to be of service to you and hope you will call if you  
should have any questions.**

**Sincerely,**

**FRIEDMAN & BRUYA, INC.**



**Kurt Johnson  
Chemist**

**keh  
Enclosures  
ACU0110R.DOC**

**FRIEDMAN & BRUYA, INC.****ENVIRONMENTAL CHEMISTS**

**Date of Report: January 10, 1997**  
**Date Received: January 2, 1997**  
**Project: Metro Self Monitor, PO #M55653**  
**Date Samples Extracted: January 6, 1997**  
**Date Extracts Analyzed: January 7, 1997**

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, AND ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**  
**Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M55653	0.46	0.74	0.46	0.50
Method Blank	<0.05	<0.05	<0.05	<0.05

## FRIEDMAN &amp; BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: January 10, 1997

Date Received: January 2, 1997

Project: Metro Self Monitor, PO #M55653

**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 74702 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.46	0.46	0	0-20
Copper	mg/L (ppm)	0.74	0.78	5	0-20
Nickel	mg/L (ppm)	0.46	0.46	0	0-20
Zinc	mg/L (ppm)	0.50	0.54	8	0-20

Laboratory Code: 74702 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.46	89	90	80-120	1
Copper	mg/L (ppm)	5	0.74	89	89	80-120	0
Nickel	mg/L (ppm)	10	0.46	91	94	80-120	3
Zinc	mg/L (ppm)	5	0.50	93	97	80-120	4

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	101	94	80-120	7
Copper	mg/L (ppm)	5	101	95	80-120	6
Nickel	mg/L (ppm)	10	101	95	80-120	6
Zinc	mg/L (ppm)	5	101	95	80-120	6